

## RACU 5 DEACTIVATION

### NOTE

This procedure assumes that MDM N1-2 is Primary and MDM N1-1 is Secondary.

PCS

#### 1. INHIBIT NCS AUTORETRY

Node 1: C&DH: MDM N1-1

Secondary NCS MDM Node 1

'Software Control'

sel MDM Utilities

sel Commands

**cmd** Second\_NCS\_Inh\_NCS\_Retry **Execute**

Secondary\_NCS\_MDM\_Utilityies

√Auto Retry Inhibit - X

#### 2. COMMAND N1-2 TO DIAGNOSTICS

### NOTE

1. Expect 'Disconnect' message on PCS.

2. Possible PDI DECOM Fail message.

Node 1: C&DH: MDM N1-2

Primary NCS MDM Node 1

'MDM Major State'

sel Commands

**cmd** N1\_2\_MDM\_Cmd\_Xsitn\_Dgnstc\_State\_Arm **Execute**

**cmd** N1\_2\_MDM\_Xsitn\_Dgnstc\_State **Execute**

CRT

#### 3. TELEMETRY RECOVERY ON OIU

SM 212 OIU

BUS 4 BC - ITEM 15 EXEC (\*)

BUS 3 RT - ITEM 10 EXEC (\*)

Change OIU N1 Phys Dev to N1-1 - ITEM 18 +4 EXEC

CRT

Wait 1 minute from diagnostic command.

Reload OIU Format 2 - ITEM 1 +2 EXEC

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4. TELEMETRY RECOVERY ON PCS

On PCS attached to PDIP N1-2 port

sel icon to open PCS CDS Main Control Panel Window

√status box - yellow

sel 'Connect to MDM'

√status box - green

Verify 'connected to MDM' indicated.

Home page will display when load complete (~1 minute).

NOTE

Expect PCS FDA 'CDH MDM N1-1 detected RT fail MDM N1-2 - PMA1'.

Node 1: C&DH: MDM N1-1

Primary NCS MDM Node 1

'MDM Major State'

√State - Primary

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\* If State not Primary or no N1-1 TLM \*

\* √**MCC** \*

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5. REMOVE POWER FROM N1-2 MDM AT RPC

NOTE

Expect PCS FDA (LED and message only) when MDM power removed.

Node 1: C&DH: MDM N1-2

Secondary NCS MDM Node 1

'RPCM N1RS2 C'

sel RPC 13

sel Commands

**cmd** Open **Execute**

√Position - Op

PCS

6. DISABLE RT DEVICES I/O ON EPS BUSES

Node 1: C&DH: MDM N1-1

Primary NCS MDM Node 1

sel UB EPS\_N1 23

sel RT Status

sel Inhib\_RT Commands

PRIM\_NCS\_UB\_EPS\_N1\_23\_Inhib

**cmd** Inhib\_RPCM\_N1RS1\_A **Execute**

**cmd** Inhib\_RPCM\_N1RS1\_B **Execute**

**cmd** Inhib\_RPCM\_N1RS1\_C **Execute**

PRIM\_EPS\_N1\_23\_RT Status

√RT Inhibit 20, 19, 18 (three) – X

## 7. COMMAND FGB RACU-5 OFF

### NOTE

RACU commands sent from Orbiter will not work if FGB relay matrix is in **MCC-M** command state (COMMANDING - INH). Crew can follow ground activities using the “If ENA” block below.

CRT

SM 204 FGB

√COMMANDING - INH (Moscow Commanding)

If COMMANDING - INH

Crew ↓ **MCC-H**: “Ready for RACU 5 Power OFF”

**MCC-H** ⇒ **MCC-M**: “Go for RACU 5 Power OFF”

RUSSIAN GROUND	<u>AOS</u>	<u>LOS</u>
Pass 1	___/___:___:___	___/___:___:___
Pass 2	___/___:___:___	___/___:___:___

**MCC-M** ⇒ **MCC-H** ↑ Crew:

“RACU 5 Powered Off at \_\_\_/\_\_\_:\_\_\_:\_\_\_ GMT”

If COMMANDING - ENA

**MCC-M** ⇒ **MCC-H**: “Go for RACU 5 Power OFF”

**MCC-H** ↑ Crew: “Moscow GO for RACU 5 Power OFF”

**On MCC GO**

MCDS

SM 204 FGB

RACU 5 Power OFF VIA NCS – ITEM 6 EXEC

√RACU 5 Input Amps < 2.0 A

√Output Volts ~0.0 V

√RACU 5 Power Off - \*

PCS

nav FGB: EPS  
FGB: EPS: RACU Details  
**RACU Details**

sel Commands  
**cmd RACU 5 - Off Execute**  
√RACU 5 Converter - Off  
√RACU 5 Input Current < 2.0 A  
√Output Voltage ~0.0 V